PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 032/04081 International application No. PCT/IL2004/001169 Applicant		FOR FURTHER ACTION as we	see Form PCT/ISA/220 Il as, where applicable, item 5 below.		
		International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)		
		26/12/2004	15/01/2004		
Applican	L				
ALGOT	EC SYSTEMS LTD.				
This Int	ernational Search Report has beeing to Article 18. A copy is being to	on prepared by this International Searching Authorsmitted to the International Bureau.	nority and is transmitted to the applicant		
This Inte	ernational Search Report consists				
<u> </u>	It is also accompanied by	y a copy of each prior an document cited in this	report.		
a.	is of the report With regard to the language, the anguage in which it was filed, un	international search was carried out on the bas less otherwise indicated under this item.	sis_of the international application in the		
		search was carried out on the basis of a translation	ation of the international application furnished to		
Ь. [With regard to any nucle	otide and/or amino acid sequence disclosed i	in the international application, see Box No. I.		
2. [Certain claims were fou	nd unsearchable (See Box II).			
з. [X Unity of Invention is lac	king (see Box III).			
4. With	regard to the title,				
. [the text is approved as su	bmitted by the applicant.			
L	the text has been establish	hed by this Authority to read as follows:			
5. With re	egard to the abstract,				
[X					
<u>L_</u>	the text has been establish may, within one month fron	ed, according to Rule 38.2(b), by this Authority in the date of mailing of this international search	as it appears in Box No. IV. The applicant report, submit comments to this Authority.		
	gard to the drawings ,				
a. the		olished with the abstract is Figure No7			
	as suggested by the				
	as selected by this	Authority, because the applicant failed to sugge	est a figure.		
ь. Г	as selected by this	Authority, because this figure better characterize	es the invention.		
D. 1	10000 Of the figures is to be	published with the abstract.			

INTERNATIONAL SEARCH REPORT

International Application No PCT/IL2004/001169

A. CLASSI	FICATION OF SUBJECT MATTER		
IPC 7	G06T7/60		•
According to	International Patent Classification (IPC) or to both national class	sification and IPC	
	SEARCHED	.	
IPC /	cumentation searched (classification system followed by classifi $696T$	• ,	
<u>.</u>	on searched other than minimum documentation to the extent th		
	ta base consulted during the International search (name of data ernal, WPI Data, PAJ, INSPEC, IBM		n terms used)
C. DOCUMEN	NTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the	relevant passages	Relevant to claim No.
A	LI R ET AL: "Combining front p with shape knowledge for accura curvilinear modeling" MEDICAL IMAGE COMPUTING AND	ropagation te	1-72, 86-94
· -	COMPUTER-ASSISTED INTERVENTION 2003. 6TH INTERNATIONAL CONFERE	MI-CCAI	
	PROCEEDINGS. PART II (LECTURE N COMPUT. SCI. VOL. 2879) SPRINGE BERLIN, GERMANY, 2003, pages 66 XP002325788	OTES IN R - VERLAG	
	ISBN: 3-540-20464-4 the whole document	•	
		-/	
	*	j	
X Further o	documents are listed in the continuation of box C.	Patent family members	are listed in annex.
Special catego	nries of cited documents :		
considered	efining the general state of the an which is not I to be of particular relevance ment but published on or after the international	cited to understand the prin	er the international filing date onflict with the application but aciple or theory underlying the
" document wi which is cit	hich may throw doubts on priority claim(s) or ed to establish the publication date of another	involve an inventive step w	or cannot be considered to the document is taken alone
O" document re other mean	other special reason (as specified) eferring to an oral disclosure, use, exhibition or as ublished prior to the international filing date but	COCUMENT IS COMORAN WITH	order an invention of the claimed invention of the claimed invention order the one or more other such docu- sing obvious to a person skilled
later than th	ne priority date claimed	*&" document member of the sar	
	April 2005	Date of mailing of the internal 0 9 11. 200	1
ame and mailing	g address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer	
7 F	NL - 2280 HV Rijswijk Fel. (+31-70) 340-2040, Tx. 31 651 epo nl. Fax: (+31-70) 340-3016	Herter, J	
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INTERNATIONAL SEARCH REPORT

International Application No PCT/I L2004/001169

C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	1 101/11/2	PC1/1L2004/001169		
Category °	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.		
A	SETHIAN J A: "Level set methods and fast marching methods" [Online] 1999, CAMBRIDGE UNIVERSITY PRESS, XP002325674 Retrieved from the Internet: URL:http://math.berkeley.edu/~sethian/Book s/sethian_book.ps> [retrieved on 2005-04-20] the whole document		1-72, 86-94		
	DESCHAMPS T ET AL: "Fast extraction of minimal paths in 3D images and applications to virtual endoscopy" MEDICAL IMAGE ANALYSIS, OXFORD UNIVERSITY PRESS, OXOFRD, GB, vol. 5, 2001, pages 281-299, XP002904305 ISSN: 1361-8415 the whole document	·	1-72, 86-94		
	COHEN L D ET AL: "GLOBAL MINIMUM FOR ACTIVE CONTOUR MODELS: A MINIMAL PATH APPROACH"		1-72, 86-94		
	INTERNATIONAL JOURNAL OF COMPUTER VISION, KLUWER ACADEMIC PUBLISHERS, NORWELL, US, vol. 24, no. 1, August 1997 (1997-08), pages 57-78, XP000703576 ISSN: 0920-5691 cited in the application the whole document	<u> </u>			
	WINK O ET AL: "3D MRA CORONARY AXIS DETERMINATION USING A MINIMUM COST PATH APPROACH" MAGNETIC RESONANCE IN MEDICINE, ACADEMIC PRESS, DULUTH, MN, US, vol. 47, no. 6, June 2002 (2002-06), pages 1169-1175, XP001170393 ISSN: 0740-3194 the whole document		1-72, 86-94		
	MADDAH MAHNAZ ET AL: "Efficient center-line extraction for quantification of vessels in confocal microscopy images" MEDICAL PHYSICS, AMERICAN INSTITUTE OF PHYSICS. NEW YORK, US, vol. 30, no. 2, February 2003 (2003-02), pages 204-211, XP012011984 ISSN: 0094-2405 the whole document		1-72, 86-94		

International application No. PCT/IL2004/001169

INTERNATIONAL SEARCH REPORT

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-72, 86-94
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-72,86-94

centerline finding for a tubular tissue in a medical image data set

2. claims: 73-80

segmentation of an organ in a medical data set

3. claims: 81-85

propagation fo a parametrization in a medical data set

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